

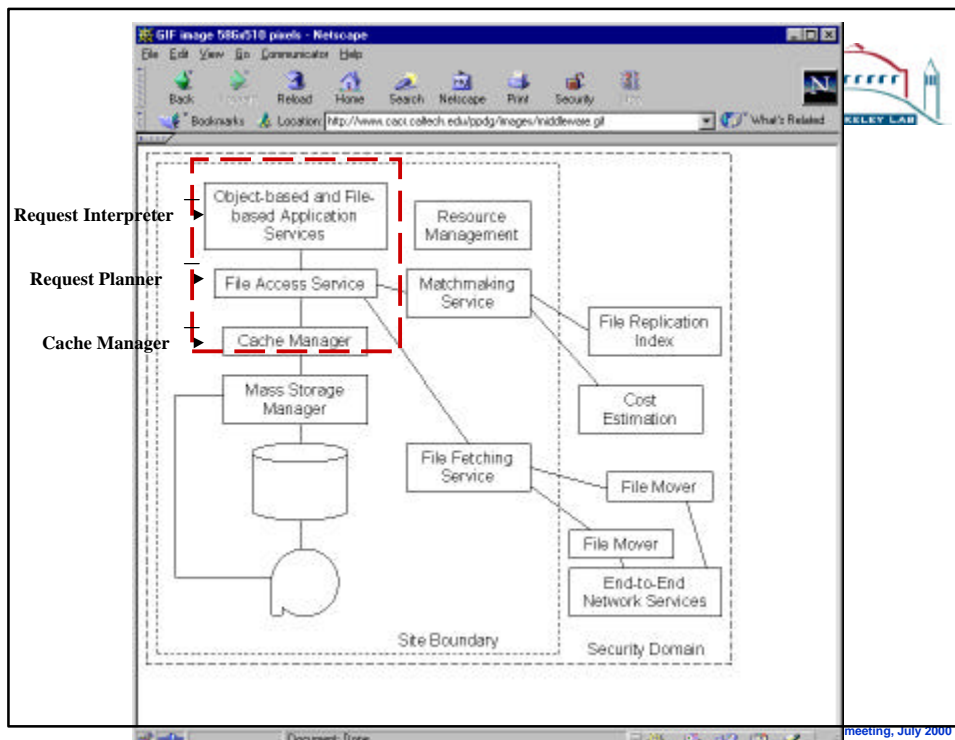


PPDG Architecture Review: where do we go from here?

Arie Shoshani

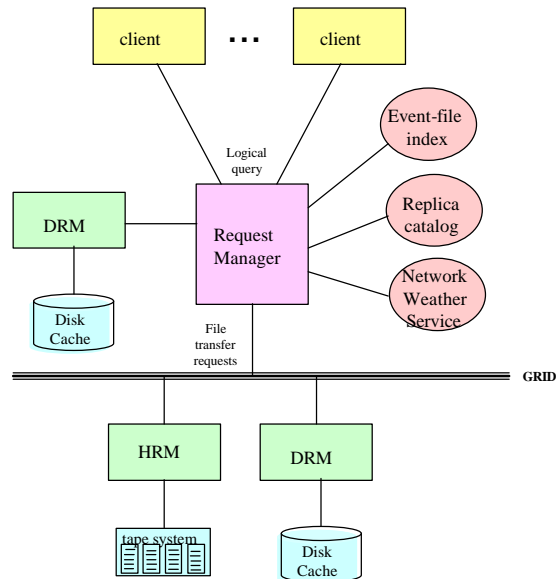
PPDG meeting
July 13-14, 2000

PPDG meeting, July 2000



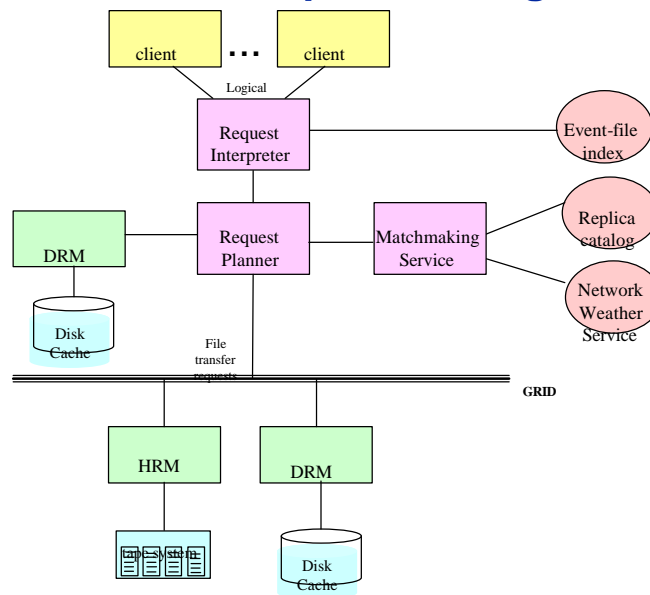
meeting, July 2000

Basic Architecture

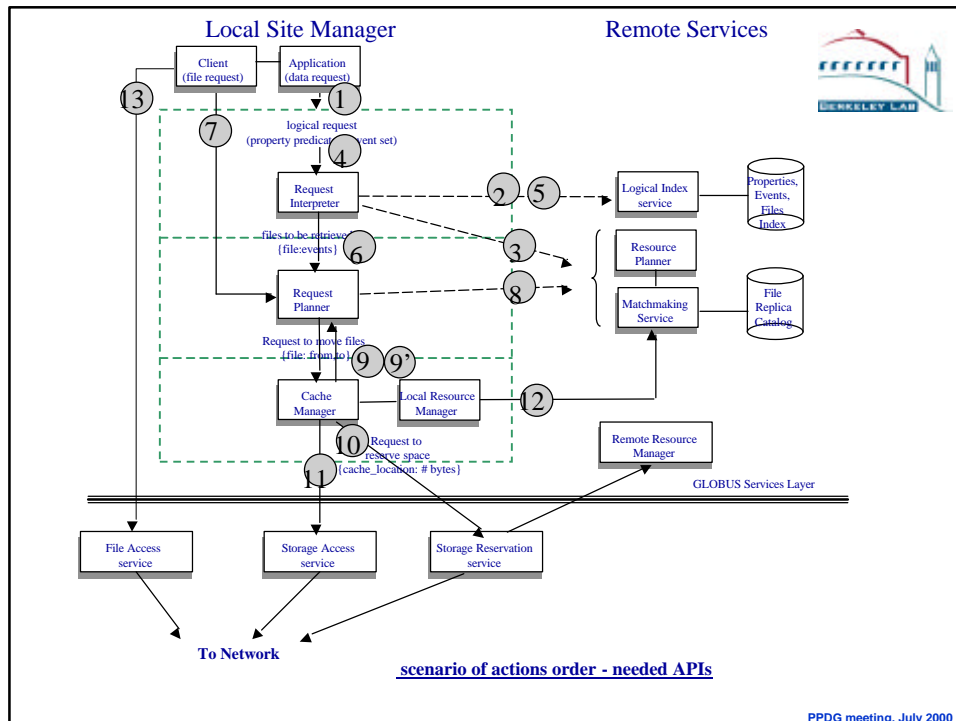


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Details of Request Manager



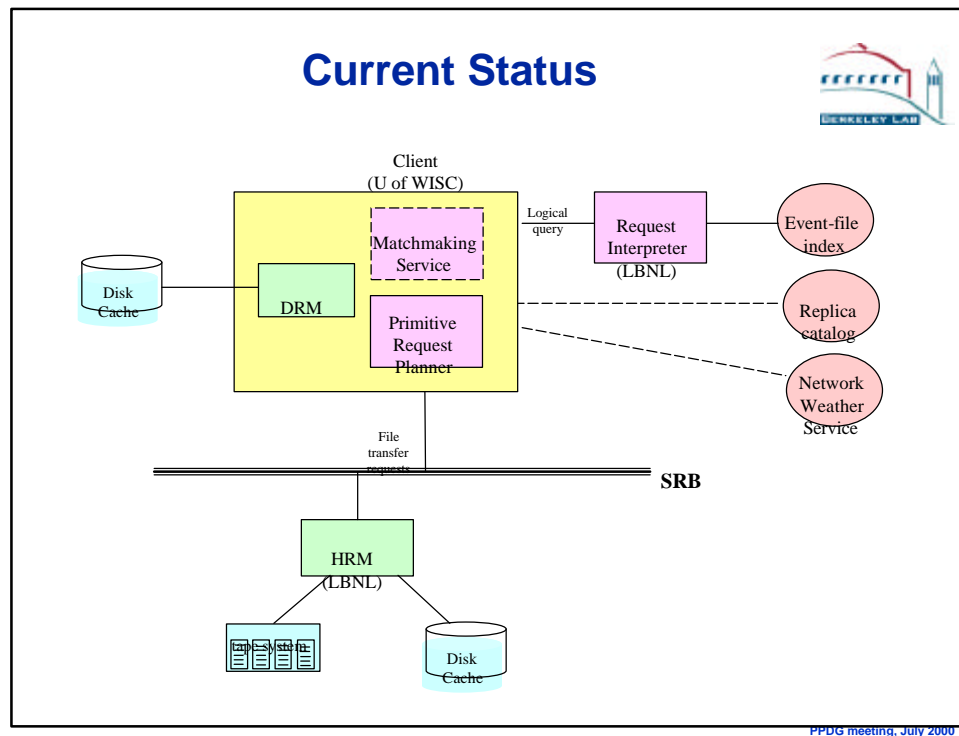
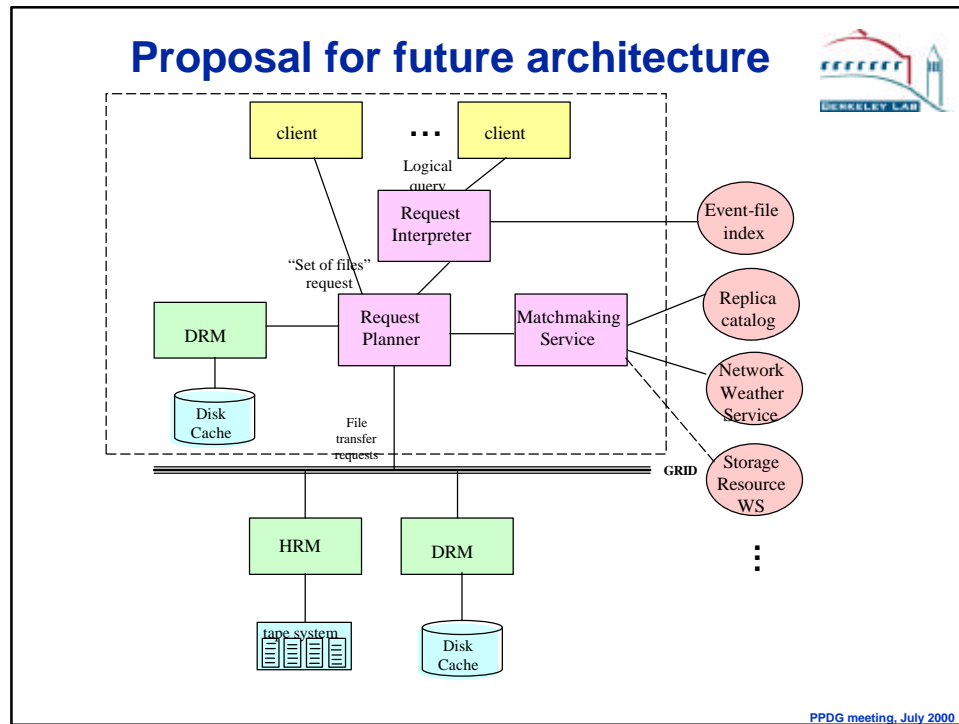
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Sequence of API calls

- ▶ 1. Application issues an estimate
- 2. Consult Logical index Service (properties-events-files) for estimate
- 3. Consult Matchmaker + Resource Planner for estimate
- 4. Issue "execute" request command
- ▶ 5. Consult Logical index Service for precise request evaluation
- 6. Sent {files:events} request to Request Planner
- 7. Client issues a request for next events to process (files are implied)
- 8. Request Planner Consults Matchmaker + Resource Planner
- ▶ 9. Request Planner issues "get file(s), source, destination" request
- 10. Cache Manager issues "reserve space" request if "destination" is remote site
- ▶ 11. Cache Manager issues "move file(s)" request
- 12. Cache Manager notifies Matchmaker of any changes to local cache
- 13. Client issues commands to read events out of files

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Future Development Needed



- **Client components**
 - Request Planner for multiple clients
 - Matchmaking Service
- **Services for intelligent planning**
 - replica catalog
 - Network Weather Service
 - Storage Resource Weather Service
 - and ...
- **Storage Resource Manager**
 - Develop HRM-Enstore or HRM-SAM
 - Develop DRMs and apply in multiple sites
- **Security - collection level?**
- **Globus/SRB file transfer and replica services?**

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